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Form PTO-1449

INFORMATION DISCLOSURE

CITATION

IN AN APPLICATION

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U.S. PATENT AND TRADEMARK OFFICE

Docket Number (Optional)
MTV-014.03 (20021-1403)Application Number:
10/004,101

Applicant Buchwald et al

Filing Date October 23, 2001

Group Art Unit 1626

U.S. PATENT DOCUMENTS

EXAM. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
B5	A 4,383,112	5/10/83	Laidler et al	542		
	B 4,723,033	2/2/88	Erickson	560		
	C 4,877,908	10/31/89	Petit et al	568		
	D 4,885,376	12/5/89	Verkade	556		
	E 5,008,457	4/16/91	Burk	568		
	F 5,099,077	3/24/92	Petit et al	568		
	G 5,162,586	11/10/92	Villacorta et al	568		
	H 5,177,230	1/5/93	Burk	556		
	I 5,187,135	2/16/93	Kolich et al	502		
	J 5,187,136	2/16/93	Klobucar et al	502		
	K 5,187,281	2/16/93	Kolich et al	562		
	L 5,210,202	5/11/93	Petit et al	548		
	M 5,268,492	12/7/93	Yamamoto et al	549		
	N 5,322,956	6/21/94	Burk	556		
	O 5,334,791	8/2/94	Cavell et al	585		
	P 5,440,062	8/8/95	Villacorta et al	556		
	Q 5,508,458	4/16/96	Zhao	556		
	R 5,530,150	6/25/96	Takaya et al	556		
	S 5,739,396	4/14/98	Trost et al	564		
	T 5,756,838	5/26/98	Davis et al	562		
	U 5,767,276	6/16/98	Zhang	546		
	V 5,777,087	7/7/98	Kohlpaintner et al	534		
B5	W 5,789,333	8/4/98	Angelici et al	502		

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						YES	NO
B5	X WO 89/10916	16.11.89	PCT				
	Y WO 92/09552	11.06.92	PCT				
	Z WO 97/13763	17.04.97	PCT				
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	BB WO 97/47633	18.12.97	PCT				
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B5	FF 5-239076		Japan				

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Docket Number (Optional)
MTV-014.0 3 (20021-1403)Application Number:
10/004,101

Applicant Buchwald et al

Filing Date October 23, 2001

Group Art Unit MAR 20 2002

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G	GG	Ahman, J., et al., "Asymmetric Arylation of Ketone Enolates," <i>J. Am. Chem. Soc.</i> , 120, pp. 1918-1919, 1998.
	HH	Benincori, T., et al., "(Diphenylphosphino)-bipheteroaryls: the First Example of a New Class of Chiral Atropisomeric Chelating Diphosphine Ligands for Transition Metal Catalysed Stereoselective Reactions," <i>J. Chem. Soc., Chem. Commun.</i> , pp. 685-686, 1995.
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	MM	Sodeoka, M., et al., "Stable Diaqua Palladium (II) Complexes of BINAP and Tol-BINAP as Highly Efficient Catalysts for Asymmetric Aldol Reactions, <i>SYNLETT</i> , pp. 463-466, May 1997.
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C	TT	Vyskocil, S., et al., "Derivatives of 2-Amino-2'-diphenylphosphino-1,1'-binaphthyl (MAP) and their Application in Pd(0)-Catalyzed Allylic Substitution," <i>Am. Chem. Soc., Newsletter and Abstracts</i> , 216 th ACS National Meeting, Boston, MA August 23-27, 1998, #538.

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Form PTO-1449

**INFORMATION DISCLOSURE CITATION
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PATENT & TRADEMARK OFFICE
U.S. DEPARTMENT OF COMMERCE

Docket Number (Optional)
MTV-014.3

Application Number:
10/004,101

Applicant Buchwald et al

Filing Date October 23, 2001 Group Art Unit
1626

<input checked="" type="checkbox"/>	UU	Wolff, J. Am. Chem. Soc. , "An Improved Catalyst System for Aromatic Carbon-Nitrogen Bond Formation: The Possible Involvement of Bis(Phosphine) Palladium Complexes as Key Intermediates," J. Am. Chem. Soc., 118, pp. 7215-7216, 1996.
	VV	
EXAMINER	DATE CONSIDERED	

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Form PTO-1449 INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION <small>(Use several sheets if necessary)</small>				Docket Number (Doc. No.) MTV-014.03 (20021-1403) Application Number 10/04,101 Applicant Buchwald, S. L. et al. Filing Date October 23, 2001 Group Art Unit 1626		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						YES
ES	BF WO 98/15515	04/16/98	PCT	—	—	X
ES	BG EP 0 503 884 A1	09/16/92	European Patent	—	—	X
ES	BH EP 0 647 648 B1	03/10/99	European Patent	—	—	X
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
ES	BI	Aranyos et al., "Novel Electron-Rich Bulky Phosphine Ligands Facilitate the Palladium-Catalyzed Preparation of Diaryl Ethers", J. AM. Chem. Soc. 121: 4369-4378 (1999)				
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	BM	Chemical Abstracts vol. 127 no. 21; November 24, 1997, Abstract no. 293410, Columbus Ohio				
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	BQ	Empsall, D. H. et al., "Complexes of Platinum and Palladium with Tertiary Dimethoxyphenyl-Phosphines: Attempts to Effect O- or C-Metallation", Journal of the Chemical Society Dalton Transactions no. 3 : 257-262 (1978).				
	BR	Gill, F. D. et al., "Transition Metal-Carbon Bonds. Part XXXIII. Internal Metallations of Secondary and Tertiary Carbon Atoms by Platinum(II) and Palladium (II)", Journal of the Chemical Society , Dalton Transactions no. 3: 270-278 (1973).				
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	BV	Hattori, T. et al., "Nucleophilic Aromatic Substitution Reactions of 1-Methoxy-2-(diphenylphosphinyl)naphthalene with C-, N-, and O-Nucleophiles: Facile Synthesis of Diphenyl(1-substituted-2-naphthyl)Phosphines", Synthesis, no. 2 : 199-202 (Feb. 1994).
	BW	Herrmann, A. et al., "Palladacycles: Efficient New Catalysts for the Heck Vinylation of Aryl Halides", Chemistry, A European Journal, 3 (8) :1357-1364 (August 1997).
	BX	Langer et al., "Catalytic Asymmetric Hydroisilylation of Ketones Using Rhodium(II)-Complexes of Chiral Phosphinoxazoline Ligands", Tetrahedron : Asymmetry 7(6): 1599-1602 (1996).
	BY	Jones et al., "O- and C- Metallation of 2-Alkoxyphenylphosphines by Platinum(II)", Journal of the Chemical Society, Dalton Transactions. no9 : 992-999 (1974).
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	CB	Palucki et al., "Palladium-Catalyzed Intermolecular Carbon-Oxygen Bond Formation: A New Synthesis of Aryl Ethers", J. Am. Chem. Soc. 119 : 3395-3396 (1997).
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Form PTO-1449		Docket Number (Optional) MTV-014.03 (20021-1403)	Application Number 10/004,101			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Applicant Buchwald et al.				
		Date MAR 18 2002	Date October 23, 2001	Group Art Unit 1626		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ES	CG 5,817,877	10/06/98	Hartwig et al.	564	399	09/19/97
ES	CH 5,977,361	11/02/99	Hartwig et al.	544	264	10/14/98
ES	CI 6,100,398	08/08/00	Hartwig et al.	544	264	06/30/99
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation
				YES	NO	
ES	CJ JP 0 733 0786	12/19/95	Japan Patent Abstract	—	—	X
ES	CK JP 0 923 528 9	09/09/97	Japan Patent Abstract	—	—	X
ES	CL EP 0 802 173 A1	10/22/97	European Patent	—	—	X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
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	CO	Kang, et al. "Catalytic Asymmetric Allylic Alkylation With a Novel P.S. Bidentate Ligand", Bull. Korean Chem. Soc. 16(5): 439-443 (1995).				
	CP	Louie, J. and Hartwig F. J. "Palladium-Catalyzed Synthesis of Arylamines from Aryl Halides. Mechanistic Studies Lead to Coupling in the Absence of Tin Reagents", Tetrahedron Letters 36(21): 3609-3611 (1995).				
	CQ	Mann, G. and Hartwig, F. J. "Palladium Alkoxides : Potential Intermediary in Catalytic Amination, Reductive Elimination of Ethers, and Catalytic Etheration. Comments on Alcohol Elimination from Ir(III)", J. Am. Chem. Soc. 118 : 13109-13110 (1996).				
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ES	CS	Zhao, et al. "Synthesis of Arylpiperazines via Palladium-Catalyzed Aromatic Amination Reaction with Unprotected Piperazines", Tetrahedron Letters 37(26): 4463-4466 (1996).				
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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)			Docket Number (Optional) MTV-01403 (20021-1403)	Application Number 10/004,101		
			Applicant Buchwald et al.			
			Filing Date October 23, 2001	Group Art Unit 1606		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
E	CT US 4,604,474	08/05/86	Kumobayashi et al.	556	7	03/21/85
	CU US 4,691,037	09/01/87	Yoshikawa et al.	556	18	01/06/86
	CV US 4,739,084	04/19/88	Takaya et al.	556	21	04/15/87
	CW US 4,739,085	04/19/88	Takaya et al.	556	21	06/15/87
	CX US 4,954,644	09/04/90	Sayo et al.	556	14	09/07/88
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	DA US 5,144,050	09/01/92	Chan et al.	556	20	10/01/91
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	DC US 5,223,632	06/29/93	Ishizaki et al.	556	21	03/01/91
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	DE US 5,312,939	05/17/94	Hori et al.	556	14	07/10/91
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	DG US 5,481,045	01/02/96	Herrmann et al.	568	454	05/11/94
	DH US 5,510,503	04/23/96	Laue et al.	556	21	09/02/94
	DI US 5,510,554	04/23/96	Regnat et al.	585	466	11/14/94
	DJ US 5,565,398	10/15/96	Herrmann et al.	502	166	11/02/95
	DK US 5,631,393	05/20/97	Kohlpaintner et al.	556	17	05/02/95
	DL US 5,648,548	07/15/97	Takaya et al.	568	17	03/13/96
	DM US 5,693,868	12/02/97	Sayo et al.	568	8	10/30/96
	DN US 5,710,337	01/20/98	Unruh et al.	568	16	04/10/96
	DO Us 5,710,338	01/20/98	Unruh et al.	568	16	04/10/96
	DP US 5,736,480	04/07/98	Davis et al.	502	155	01/12/95
	DQ US 5,756,760	05/26/98	Miyano et al.	548	413	03/07/97
	DR US 5,756,838	05/26/98	Davis et al.	562	553	08/16/95
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	AV	Muratake, H. et al., "Palladium-Catalyzed Intramolecular α -Arylation of Aliphatic Ketones", <i>Tetrahedron Letters</i> , 38:7581-7582 (1997).
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	AY	Reimerier, T. et al., "Palladium-catalyzed C-C- and C-N-coupling reactions of Aryl Chlorides", <i>Topics in Catalysis</i> , 4:301-309 (1997).
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E	BE	Yamamoto, T. et al., "Palladium-Catalyzed Synthesis of Triarylamines from Aryl Halides and Diarylamines", <i>Tetrahedron Letters</i> , 39:2367-2370 (1998).

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Form PTO-1449 INFORMATION DISCLOSURE CITATION -IN AN APPLICATION (Use several sheets if necessary) MAR 18 2002			Docket Number (Optional) MTV-01403 (20021-1403)		Application Number 10/004,101		
			Applicant Buchwald et al.				
			Filing Date October 23, 2001		Group Art Unit <i>1626</i>		
<i>BS</i>	DU	PATENT 5,780,692 MAILED 3/18/02	07/14/98	Sakaguchi et al.	568	814	12/24/96
	DV	US 5,789,609	08/04/98	Tamao et al.	556	18	10/22/97
	DW	US 5,789,624	08/04/98	Unruh et al.	568	454	04/10/96
	DX	US 5,808,162	09/15/98	Sayo et al.	568	10	07/18/96
	DY	US 5,824,830	10/20/98	Ikariya	585	269	08/12/97
	DZ	US 5,827,794	10/27/98	Davis et al.	502	162	09/28/95
<i>BS</i>	EA	US 5,847,222	12/08/98	Yokozawa et al.	568	16	08/26/97

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<i>BS</i>	EB WO 95/22405	08/24/95	PCT			X
	EC EP 0 118 257 A1	09/12/84	European Patent Application			X
	ED EP 0 118 257 B1	12/17/86	European Patent Specification			X
	EE EP 0 135 392 A2	03/27/85	European Patent Application			X
	EF EP 0 135 392 B1	02/03/88	European Patent Specification			X
	EG EP 0 156 607 A2	10/02/85	European Patent Application			X
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	EI EP 0 174 057 A2	03/12/86	European Patent Application			X
	EJ EP 0 174 057 B1	03/12/86	European Patent Specification			X
	EK EP 0 235 450 A1	09/09/87	European Patent Application			X
	EL EP 0 466 405 A1	01/15/92	European Patent Application			X
	EM EP 0 466 405 B1	01/15/92	European Patent Specification			X
<i>BS</i>	EN EP 0 826 694 A1	03/04/98	European Patent Application			

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(Including Author, Title, Date, Pertinent Pages Etc.)

EXAMINER	<i>Bernard Sallee</i>	DATE CONSIDERED <i>8/27/02</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) MTV-014.03 (20021-1403)	Application Number 10/004,101
		Applicant Buchwald, S. L. et al.	
		Filing Date October 23, 2001	Group Art Unit 1626

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
						RECEIVED
						MAR 20 2002
						TECH CENTER 1600/2900

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	NO
ES	WO 98/12202	03/26/98	PCT				X
	EP 0 667 350 A1	08/16/95	European Patent Application				X
	EQ EP 0 849 274 A1	06/24/98	European Patent Application				X
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EXAMINER	<i>Chen, Rooney</i>	DATE CONSIDERED <i>8/27/02</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN A(n) APPLICATION <i>(Use several sheets if necessary)</i>			Docket Number (Optional) MTV-014.03 (20021-1403)	Application Number 10/004,101
			Applicant Buchwald, S. et al.	
			Filing Date October 23, 2001	Group Art Unit 1626

U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>BS</i>	AA	4,992,519	02/12/91	Hou, D. et al.	568	315
						21 December 1989

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<i>BS</i>	AB	Bei, X. et al., "A Convenient Palladium/Ligand Catalyst for Suzuki Cross-Coupling Reactions of Arylboronic Acid and Aryl Chlorides", <i>Tetrahedron Letters</i> , 40:3855-3858 (1999).
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	AE	Beller, M. et al., "First Palladium-Catalyzed Aminations of Aryl Chlorides", <i>Tetrahedron Letters</i> , 38:2073-2074 (1997).
	AF	Beller, M., "Palladacycles as Efficient Catalysts for Aryl Coupling Reactions", <i>Agnew. Chem. Int. Ed. Engl.</i> , 34:1848-1849 (1995).
	AG	Brenner, E. et al., "New Efficient Nickel(0) Catalysed Amination of Aryl Chlorides", <i>Tetrahedron Letters</i> , 39:5355-5362 (1998).
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	AJ	Cornils, B., "Industrial Aqueous Biphasic Catalysis: Status and Directions", <i>Org. Proc. Res. Dev.</i> , 2:121-127 (1998).
	AK	Firooznia, F. et al., "Synthesis of 4-Substituted Phenylalanines by Cross-Coupling Reactions: Extension of the Methodology to Aryl Chlorides", <i>Tetrahedron Letters</i> , 39:3985-3988 (1998).
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